## Claims

- 1 1. Method for producing a fuel injection nozzle for an internal combustion
- 2 engine, comprising the steps of:
- 3 providing a nozzle body in which a valve needle with a stop is displaceably disposed,
- 4 providing a nozzle holder in which a pressure pin is displaceably disposed, and
- 5 providing a disk-shaped stop element in a region between the nozzle body and the
- 6 nozzle holder,
- 7 axially tensioning the nozzle body and the nozzle holder against one another in such
- 8 a way that the stop element forms a first sealing surface which bears on a nozzle
- 9 holder section, and a second sealing surface which bears on a nozzle body section, and
- 10 producing at least one cutout in the two sealing surfaces in a single manufacturing
- 11 operation.
- 1 2. Method according to Claim 1, wherein the cutout is punched, drilled and/or
- 2 stamped.
- 1 3. Method according to Claim 1, wherein the cutout extends all the way through
- 2 the stop element from the first to the second sealing surface.
- 1 4. Method according to Claim 1, further comprising the step of deepening the
- 2 cutout by a predetermined axial depth in the first and the second sealing surface.
- 1 5. Method according to Claim 1, wherein the cutout has a circular, oval or
- 2 polygonal shape.
- 1 6. Method according to Claim 1, further comprising the step of providing the
- 2 cutout in the edge region of the stop element.

- 1 7. Fuel injection nozzle for an internal combustion engine, comprising:
- 2 a nozzle body in which a valve needle with a stop is displaceably disposed,
- 3 a nozzle holder in which a pressure pin is displaceably disposed, and
- 4 a disk-shaped stop element which is provided in a region between the nozzle body
- 5 and the nozzle holder, wherein
- 6 the nozzle body and the nozzle holder being axially tensioned against one another in
- 7 such a way that the stop element forms a first sealing surface which bears on a nozzle
- 8 holder section, and a second sealing surface which bears on a nozzle body section,
- 9 wherein the first and the second sealing surfaces each incorporate at least one cutout
- 10 for the purpose of increasing the contact pressure of the sealing surfaces, and wherein
- 11 the bilateral cutouts being implemented evenly opposite one another in the sealing
- 12 surfaces.
- 1 8. Fuel injection nozzle according to Claim 7, wherein the cutout extends all the
- 2 way through the stop element from the first to the second sealing surface.
- 1 9. Fuel injection nozzle according to Claim 7, wherein the cutout is deepened by
- 2 a predetermined axial depth in the first and the second sealing surface.
- 1 10. Fuel injection nozzle according to Claim 7, wherein the cutout has a circular,
- 2 oval or polygonal shape.
- 1 11. Fuel injection nozzle according to Claim 7, wherein the cutout is provided in
- 2 the edge region of the stop element.

- 1 12. Method for manufacturing a fuel injection nozzle for an internal combustion
- 2 engine, comprising the steps of:
- 3 disposing a valve needle with a stop displaceably within a nozzle body,
- 4 disposing a pressure pin displaceably within a nozzle holder,
- 5 providing a disk-shaped stop element in a region between the nozzle body and the
- 6 nozzle holder,
- 7 axially tensioning the nozzle body and the nozzle holder against one another in such
- 8 a way that the stop element forms a first sealing surface which bears on a nozzle
- 9 holder section, and a second sealing surface which bears on a nozzle body section, and
- producing at least one cutout in the two sealing surfaces in a single manufacturing
- 11 operation.
- 1 13. Method according to Claim 12, wherein the cutout is punched, drilled and/or
- 2 stamped.
- 1 14. Method according to Claim 12, wherein the cutout extends all the way through
- 2 the stop element from the first to the second sealing surface.
- 1 15. Method according to Claim 12, further comprising the step of deepening the
- 2 cutout by a predetermined axial depth in the first and the second sealing surface.
- 1 16. Method according to Claim 12, wherein the cutout has a circular, oval or
- 2 polygonal shape.
- 1 17. Method according to Claim 12, further comprising the step of providing the
- 2 cutout in the edge region of the stop element.